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WHAT IS CLAIMED IS:

- 1. A software controlled data replacement system for a cache, the system employing a memory region and associated class identifier and a tag replacement control indicia, comprising:
- a replacement management table, employable to read the class identifier to create the tag replacement control indicia, wherein the class identifier is created by software; and
- the cache, comprising a plurality of sets, employable to disable a replacement of at least one of the plurality of sets as a function of the tag replacement control indicia.
- 2. The system of Claim 1, wherein the memory region and associated class identifier creation software further comprises compiler or operating system software.
 - 3. The system of Claim 1, wherein a set of the cache is replaced based upon a least recently used function.
 - 4. The system of Claim 1, wherein the replacement management table uses software.
- 5. The system of Claim 4, wherein class identifier creation software is employable to classify an address range as a default address range.
 - 6. The system of Claim 1, wherein the cache comprises a translation lookaside buffer.

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- 7. The system of Claim 4, wherein class identifier generation software further comprises a direct memory access command.
- 8. A method of determining information replacement in a cache, comprising:

creating a class identifier by class identifier creation software;

reading the class identifier;

10 creating a tag replacement control indicia as a function of the class identifier through employment of a replacement management table; and

configuring replacement eligibility of a set in a cache as a function of the associated tag replacement control indicia.

9. The method of Claim 8, wherein the step of creating a tag replacement control indicia further comprises employing a software-managed replacement management table.

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10. The method of Claim 8, further comprising replacing information within the set of the cache with other information as a function of the tag replacement control indicia.

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- 11. The method of Claim 8, wherein creating a classID further comprises creating a non-default classID if a hit of an address occurs in class identifier generation software.
- 12. The method of Claim 8, further comprising discarding the tag replacement control indicia if there is a hit on the cache.

13. The method of Claim 8, further comprising the step of retrieving the data associated with an address from the second cache if there is a hit in the second cache.

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- 14. The method of Claim 8, further comprising replacing a set based upon a least recently used function.
- 15. The method of Claim 8, further comprising employing an address range to associate with the class identifier.
 - 16. The method of Claim 8, further comprising employing an algorithm bit to select an algorithm for the replacement of the eligible set.
 - 17. The method of Claim 8, wherein a default classID is generated by the hardware if a software generated classID is not provided.

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- 18. A computer program product for determining information replacement in a cache, the computer program product having a medium with a computer program embodied thereon, the computer program comprising:
- computer code for creating a class identifier by class identifier generation software;

computer code for reading the class identifier;

computer code for creating a tag replacement control indicia as a function of the class identifier through employment of a replacement management table; and

computer code for configuring replacement eligibility of a set in a cache as a function of the associated tag replacement control indicia.

- 19. The computer program product of Claim 18, further comprising computer code for replacing information within the set of the cache with other information as a function of the tag replacement control indicia.
- 20. The computer program product of Claim 18, wherein software for creating a classID further comprises creating a non-default classID if a hit of an address occurs in the software.
- 15 21. A processor for determining information replacement in a cache, the processor including a computer program comprising:

computer code for creating a class identifier by class identifier generation software;

- computer code for reading the class identifier;

 computer code for creating a tag replacement control

 indicia as a function of the class identifier through

 employment of a replacement management table; and
- computer code for configuring replacement eligibility of a set in a cache as a function of the associated tag replacement control indicia.